### **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions, and listings, of claims in the application.

# 1. (Previously presented) A compound of the formula I or II:

wherein

n is 1 or 2;

R<sup>28</sup> and R<sup>43</sup> are independently selected from the group consisting of H and an aliphatic, acyl, aroyl or heteroaroyl moiety;

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U.S.S.N. 09/645,967 3730194\_1.DOC one of  $R^{7a}$  and  $R^{7b}$  is H and the other is halo,  $-R^A$ ,  $-OR^A$ ,  $-SR^A$ ,  $-OC(O)R^A$ ,  $-OC(O)NR^AR^B$ ,  $-NR^BC(O)R^A$ ,  $-NR^BC(O)OR^A$ ,  $-NR^BSO_2R^A$ ,  $-NR^BSO_2NR^AR^B$  or  $-NR^BC(O)NR^AR^B$ ; or  $R^{7a}$  and  $R^{7b}$  taken together, are H in the tetraene moiety:

where R<sup>A</sup> is H or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety; where R<sup>B</sup> is H, OH or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety; where each aliphatic moiety is an independently chosen saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms;

where each heteroaliphatic moiety is an independently chosen 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms;

where each aryl moiety is an independently chosen 6-14-membered mono- or polycyclic unsaturated moiety;

where each heteroaryl moiety is an independently chosen 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms; and

where each acyl moiety is an independently chosen -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

or a pharmaceutically acceptable salt thereof.

- 2. (Currently amended) The compound of claim 1, 78 or 79 wherein n is 2,  $R^{28}$  is H,  $R^{7a}$  is -OMe,  $R^{7b}$  is H and  $R^{43}$  is an aliphatic moiety.
- 3. (Currently amended) The compound of claim 1, 78 or 79 wherein R<sup>7a</sup> is -OMe and R<sup>7b</sup> is H.

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- 4. (Currently amended) The compound of claim 1, 78 or 79 wherein R<sup>28</sup> is H.
- 5. (Currently amended) The compound of claim 1, 78 or 79 wherein R<sup>43</sup> is H.
- 6. (Currently amended) The compound of claim 1, 78 or 79 wherein either  $R^{7a}$  is a moiety other than -OMe or  $R^{7b}$  is a moiety other than H.
- 7. **(Previously Presented)** The compound of claim 6 wherein one of R<sup>7a</sup> and R<sup>7b</sup> is NR<sup>B</sup>C(O)R<sup>A</sup>, -NR<sup>B</sup>C(O)OR<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>R<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>NR<sup>A</sup>R<sup>B</sup>' or -NR<sup>B</sup>C(O)NR<sup>A</sup>R<sup>B</sup>'.
- 8. (Original) The compound of claim 7 in which R<sup>B</sup> is H, OH or alkyl.
- 9. (Currently amended) The compound of claim 1, 78 or 79 wherein R<sup>43</sup> is an aliphatic moiety.
- 10. (Previously Presented) The compound of claim 9 wherein R<sup>43</sup> is an alkyl moiety.
- 11. (Currently amended) The compound of claim  $\frac{10}{1}$ ,  $\frac{78}{1}$  or  $\frac{79}{1}$  wherein the alkyl moiety  $\frac{R^{43}}{1}$  is a hydroxyalkyl moiety.
- 12. (Previously Presented) The compound of claim 9 wherein  $\mathbb{R}^{43}$  is an alkenyl moiety.
- 13. **(Previously Presented)** The compound of claim 12 wherein the alkenyl moiety is an allyl group.
- 14. (Currently amended) The compound of claim 1, 78 or 79 wherein R<sup>43</sup> is an acyl moiety.
- 15. (Canceled)
- 16. (Previously Presented) The compound of claim 14 wherein R<sup>43</sup> is an acyl moiety of the

formula R<sup>A</sup>R<sup>B</sup>N-alkyl-C(O)-.

- 17. (Original) The compound of claim 2, wherein R<sup>28</sup> and R<sup>43</sup> are H, R<sup>7a</sup> is -OMe, and R<sup>7b</sup> is H.
- 18. (Previously Presented) The compound of claim 6 wherein n is 2, and R<sup>28</sup> and R<sup>43</sup> are H.
- 19. (Currently amended) The compound of any of claims 1, 3-14, 16, 22, 23, 89 or 90 claim 1, 78 or 79 wherein n is 2.

20-21. (Canceled)

- 22. (Currently amended) The compound of claim 1, 78 or 79 wherein the compound has the formula II in which -OR<sup>43</sup> is in the S orientation.
- 23. (Currently amended) The compound of claim 1,  $\underline{78 \text{ or } 79}$  wherein the compound has the formula II in which  $-OR^{43}$  is in the R orientation.

24-40. (Canceled)

- 41. (Currently amended) A composition comprising a compound of any of claims 1-18, 22-23, 89 or 90 claim 1, 78 or 79 and one or more pharmaceutically acceptable carriers, diluents or excipients.
- 42. (Currently amended) A method for producing a compound of claim 1, 78 or 79 which comprises contacting a homologous C28 epimer with a titanium tetraalkoxide reagent under suitable conditions and for a sufficient time to permit epimerization.
- 43. (Original) The method of claim 42 wherein the titanium tetraalkoxide reagent is titanium tetraisopropoxide.

- 44. **(Previously Presented)** The method of claim 42 which further comprises recovering the epimerized product.
- 45. (Currently amended) The method of any of claims 42-44 claim 42 wherein the homologous C28 epimer is rapamycin.

# 46-77. (Canceled)

78. (Currently amended) The compound of any of claims 1-18, 22-23, 89 or 90 A compound of the formula I or II:

## wherein

#### n is 1 or 2;

R<sup>28</sup> and R<sup>43</sup> are independently selected from the group consisting of H and an aliphatic, acyl, aroyl or heteroaroyl moiety;

one of R<sup>7a</sup> and R<sup>7b</sup> is H and the other is halo, -R<sup>A</sup>, -OR<sup>A</sup>, -SR<sup>A</sup>, -OC(O)R<sup>A</sup>, -OC(O)NR<sup>A</sup>R<sup>B</sup>,

-NR<sup>A</sup>R<sup>B</sup>, -NR<sup>B</sup>C(O)R<sup>A</sup>, -NR<sup>B</sup>C(O)OR<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>R<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>NR<sup>A</sup>R<sup>B</sup> or -NR<sup>B</sup>C(O)NR<sup>A</sup>R<sup>B</sup>; or

R<sup>7a</sup> and R<sup>7b</sup> taken together, are H in the tetraene moiety:

where R<sup>A</sup> is H or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;
where R<sup>B</sup> is H, OH or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;
where each aliphatic moiety is an independently chosen saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms;

where each heteroaliphatic moiety is an independently chosen 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms;

where each aryl moiety is an independently chosen 6-14-membered mono- or polycyclic unsaturated moiety;

where each heteroaryl moiety is an independently chosen 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms;

where each acyl moiety is an independently chosen -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

wherein each aliphatic, acyl, aroyl, heteroaroyl, heteroaliphatic, aryl or heteroaryl moiety contains one or more optional substituents selected from the group consisting of -OH, -OR $^2$ , -SH, -SR $^2$ , -CHO, =O, -COOH (or ester, carbamate, urea, oxime or carbonate thereof), -NH $_2$  (or substituted amine, amide, urea, carbamate or guanidino derivative thereof), halo, trihaloalkyl, cyano, -SO $_2$ -CF $_3$ , -OSO $_2$ F, -OS(O) $_2$ R $^{11}$ , -SO $_2$ -NHR $^{11}$ , -NHSO $_2$ -R $^{11}$ , sulfate, sulfonate, aryl and heteroaryl moieties;

where R<sup>2</sup> is an aliphatic, heteroaliphatic, aryl, heteroaryl or alkylaryl moiety; and where R<sup>11</sup> is H or an aliphatic, heteroaliphatic, aryl or heteroaryl moiety; or a pharmaceutically acceptable salt thereof.

79. (Currently amended) The compound of any of claims 1-18, 22-23, 89 or 90 A compound of the formula I or II:

#### wherein

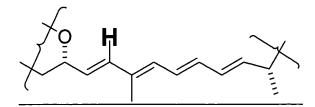
## n is 1 or 2;

R<sup>28</sup> and R<sup>43</sup> are independently selected from the group consisting of H and an aliphatic, acyl, aroyl or heteroaroyl moiety;

one of R<sup>7a</sup> and R<sup>7b</sup> is H and the other is halo, -R<sup>A</sup>, -OR<sup>A</sup>, -SR<sup>A</sup>, -OC(O)R<sup>A</sup>, -OC(O)NR<sup>A</sup>R<sup>B</sup>,

-NR<sup>A</sup>R<sup>B</sup>, -NR<sup>B</sup>C(O)R<sup>A</sup>, -NR<sup>B</sup>C(O)OR<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>R<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>NR<sup>A</sup>R<sup>B</sup>' or -NR<sup>B</sup>C(O)NR<sup>A</sup>R<sup>B</sup>'; or

R<sup>7a</sup> and R<sup>7b</sup> taken together, are H in the tetraene moiety:



where R<sup>A</sup> is H or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;
where R<sup>B</sup> is H, OH or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;
where each aliphatic moiety is an independently chosen saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms;

where each heteroaliphatic moiety is an independently chosen 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms;

where each aryl moiety is an independently chosen 6-14-membered mono- or polycyclic unsaturated moiety;

where each heteroaryl moiety is an independently chosen 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms;

where each acyl moiety is an independently chosen -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

wherein each aroyl, heteroaroyl, aryl or heteroaryl moiety contains one or more optional substituents selected from the group consisting of hydroxy, C1-C8 alkoxy, C1-C8 branched or straight-chain alkyl, acyloxy, carbamoyl, amino, N-acylamino, nitro, halo, trihalomethyl, cyano, and carboxyl;

or a pharmaceutically acceptable salt thereof.

80. (Currently amended) The compound of any of claims 10, 12 or 14 A compound of the formula I or II:

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### wherein

n is 1 or 2;

 $R^{28}$  is selected from the group consisting of H and an aliphatic, acyl, aroyl or heteroaroyl moiety;  $R^{43}$  is an alkyl, alkenyl or acyl moiety;

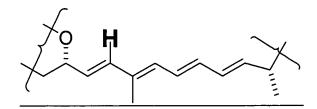
one of R<sup>7a</sup> and R<sup>7b</sup> is H and the other is halo, -R<sup>A</sup>, -OR<sup>A</sup>, -SR<sup>A</sup>, -OC(O)R<sup>A</sup>, -OC(O)NR<sup>A</sup>R<sup>B</sup>,

-NR<sup>A</sup>R<sup>B</sup>, -NR<sup>B</sup>C(O)R<sup>A</sup>, -NR<sup>B</sup>C(O)OR<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>R<sup>A</sup>, -NR<sup>B</sup>SO<sub>2</sub>NR<sup>A</sup>R<sup>B</sup>' or -NR<sup>B</sup>C(O)NR<sup>A</sup>R<sup>B</sup>'; or

R<sup>7a</sup> and R<sup>7b</sup> taken together, are H in the tetraene moiety:

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where R<sup>A</sup> is H or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;
where R<sup>B</sup> is H, OH or an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;
where each aliphatic moiety is an independently chosen saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms;

where each heteroaliphatic moiety is an independently chosen 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms;

where each aryl moiety is an independently chosen 6-14-membered mono- or polycyclic unsaturated moiety;

where each heteroaryl moiety is an independently chosen 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms;

where each acyl moiety is an independently chosen -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

wherein each alkyl, alkenyl or acyl moiety contains one or more optional substituents selected from the group consisting of -OH, -OR<sup>2</sup>, -SH, -SR<sup>2</sup>, -CHO, =O, -COOH (or ester, carbamate, urea, oxime or carbonate thereof), -NH<sub>2</sub> (or substituted amine, amide, urea, carbamate or guanidino derivative thereof), halo, trihaloalkyl, cyano, -SO<sub>2</sub>-CF<sub>3</sub>, -OSO<sub>2</sub>F, -OS(O)<sub>2</sub>R<sup>11</sup>, -SO<sub>2</sub>-NHR<sup>11</sup>, -NHSO<sub>2</sub>-R<sup>11</sup>, sulfate, sulfonate, aryl and heteroaryl moieties; where R<sup>2</sup> is an aliphatic, heteroaliphatic, aryl, heteroaryl or alkylaryl moiety; and where R<sup>11</sup> is H or an aliphatic, heteroaliphatic, aryl or heteroaryl moiety; or a pharmaceutically acceptable salt thereof.

81. (Previously presented) 28-epirapamycin or a pharmaceutically acceptable salt thereof.

- 82. (Previously presented) 29-epirapamycin or a pharmaceutically acceptable salt thereof.
- 83. **(Previously presented)** 28, 29-bis-epirapamycin or a pharmaceutically acceptable salt thereof.
- 84. (Currently amended) The A compound having the structure of 28-epirapamycin, 29-epirapamycin or 28, 29-bis-epirapamycin of any of claims 81-83 in which except that the hydroxyl group at position 43 is replaced with OR<sup>43</sup> wherein R<sup>43</sup> is an aliphatic, acyl, aroyl or heteroaroyl moiety; where an aliphatic moiety is a saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms; where a heteroaliphatic moiety is a 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms; where an aryl moiety is a 6-14-membered mono- or polycyclic unsaturated moiety; where a heteroaryl moiety is a 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms; and where an acyl moiety is an -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

or a pharmaceutically acceptable salt thereof.

85. (Currently amended) The compound of claim 84 A compound having the structure of 28-epirapamycin, 29-epirapamycin or 28, 29-bis-epirapamycin except that the hydroxyl group at position 43 is replaced with OR<sup>43</sup> wherein R<sup>43</sup> is an aliphatic, acyl, aroyl or heteroaroyl moiety; where an aliphatic moiety is a saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms; where a heteroaliphatic moiety is a 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms; where an aryl moiety is a 6-14-membered mono- or polycyclic unsaturated moiety; where a heteroaryl moiety is a 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms;

where an acyl moiety is an -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

wherein each aliphatic, acyl, aroyl or heteroaroyl moiety contains one or more optional substituents selected from the group consisting of -OH, -OR $^2$ , -SH, -SR $^2$ , -CHO, =O, -COOH (or ester, carbamate, urea, oxime or carbonate thereof), -NH $_2$  (or substituted amine, amide, urea, carbamate or guanidino derivative thereof), halo, trihaloalkyl, cyano, -SO $_2$ -CF $_3$ , -OSO $_2$ F, -OS(O) $_2$ R $^{11}$ , -SO $_2$ -NHR $^{11}$ , -NHSO $_2$ -R $^{11}$ , sulfate, sulfonate, aryl and heteroaryl moieties; where R $^2$  is an aliphatic, heteroaliphatic, aryl, heteroaryl or alkylaryl moiety; and where R $^{11}$  is H or an aliphatic, heteroaliphatic, aryl or heteroaryl moiety; or a pharmaceutically acceptable salt thereof.

86. (Currently amended) The compound of claim 84 A compound having the structure of 28-epirapamycin, 29-epirapamycin or 28, 29-bis-epirapamycin except that the hydroxyl group at position 43 is replaced with OR<sup>43</sup> wherein R<sup>43</sup> is an aliphatic, acyl, aroyl or heteroaroyl moiety; where an aliphatic moiety is a saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms; where a heteroaliphatic moiety is a 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms; where an aryl moiety is a 6-14-membered mono- or polycyclic unsaturated moiety; where a heteroaryl moiety is a 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms; where an acyl moiety is an -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

wherein each aroyl or heteroaroyl moiety contains one or more optional substituents selected from the group consisting of hydroxy, C1-C8 alkoxy, C1-C8 branched or straight-chain alkyl, acyloxy, carbamoyl, amino, N-acylamino, nitro, halo, trihalomethyl, cyano, and carboxyl; or a pharmaceutically acceptable salt thereof.

87. (Currently amended) The compound of claim 84 A compound having the structure of 28-epirapamycin, 29-epirapamycin or 28, 29-bis-epirapamycin except that the hydroxyl group at position 43 is replaced with OR<sup>43</sup> wherein R<sup>43</sup> is an aliphatic, acyl, aroyl or heteroaroyl moiety;

where an aliphatic moiety is a saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms; where a heteroaliphatic moiety is a 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms; where an aryl moiety is a 6-14-membered mono- or polycyclic unsaturated moiety; where a heteroaryl moiety is a 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms; where an acyl moiety is an -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

wherein  $R^{43}$  is a hydroxyalkyl moiety that contains one or more optional substituents selected from the group consisting of -OH, -OR<sup>2</sup>, -SH, -SR<sup>2</sup>, -CHO, =O, -COOH (or ester, carbamate, urea, oxime or carbonate thereof), -NH<sub>2</sub> (or substituted amine, amide, urea, carbamate or guanidino derivative thereof), halo, trihaloalkyl, cyano, -SO<sub>2</sub>-CF<sub>3</sub>, -OSO<sub>2</sub>F, -OS(O)<sub>2</sub>R<sup>11</sup>, -SO<sub>2</sub>-NHR<sup>11</sup>, -NHSO<sub>2</sub>-R<sup>11</sup>, sulfate, sulfonate, aryl and heteroaryl moieties; where  $R^2$  is an aliphatic, heteroaliphatic, aryl, heteroaryl or alkylaryl moiety; and where  $R^{11}$  is H or an aliphatic, heteroaliphatic, aryl or heteroaryl moiety; or a pharmaceutically acceptable salt thereof.

88. (Currently amended) The compound of claim 84 A compound having the structure of 28-epirapamycin, 29-epirapamycin or 28, 29-bis-epirapamycin except that the hydroxyl group at position 43 is replaced with OR<sup>43</sup> wherein R<sup>43</sup> is an aliphatic, acyl, aroyl or heteroaroyl moiety; where an aliphatic moiety is a saturated or unsaturated, branched or unbranched, cyclic or polycyclic, aliphatic hydrocarbon containing 1-8 contiguous aliphatic carbon atoms; where a heteroaliphatic moiety is a 2-8-membered non-cyclic or 3-10-membered cyclic aliphatic moiety which contains one or more oxygen, sulfur, nitrogen, phosphorous or silicon atoms; where an aryl moiety is a 6-14-membered mono- or polycyclic unsaturated moiety; where a heteroaryl moiety is a 5-6-membered monocyclic or 9-14-membered polycyclic unsaturated moiety which contains one or more oxygen, sulfur or nitrogen atoms; where an acyl moiety is an -OCR group where R is an aliphatic, heteroaliphatic, aryl, or heteroaryl moiety;

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wherein R<sup>43</sup> is an acyl moiety that contains one or more optional substituents selected from the group consisting of -OH, -OR<sup>2</sup>, -SH, -SR<sup>2</sup>, -CHO, =O, -COOH (or ester, carbamate, urea, oxime or carbonate thereof), -NH2 (or substituted amine, amide, urea, carbamate or guanidino derivative thereof), halo, trihaloalkyl, cyano,  $-SO_2-CF_3$ ,  $-OSO_2F$ ,  $-OS(O)_2R^{11}$ ,  $-SO_2-NHR^{11}$ ,  $-SO_2-NHR$ NHSO<sub>2</sub>-R<sup>11</sup>, sulfate, sulfonate, aryl and heteroaryl moieties; where R<sup>2</sup> is an aliphatic, heteroaliphatic, aryl, heteroaryl or alkylaryl moiety; and where R<sup>11</sup> is H or an aliphatic, heteroaliphatic, aryl or heteroaryl moiety; or a pharmaceutically acceptable salt thereof.

- 89. (Currently amended) The compound of claim 1, 78 or 79, wherein the compound has the formula I.
- (Currently amended) The compound of claim 1, 78 or 79, wherein the compound has 90. the formula II.